Tables: Tools for Organizing Data

SI539 - Lloyd Chapter 6

These slides intended for use with the text book, "Building your Own Web Site the Right Way Using HTML & CSS" by Ian Lloyd, and Available from Sitepoint books.

Tables are for Rows and Columns

- When you have something that looks like a spreadsheet - with rows and columns and optionally headers and footers - use a table
- It is the *right* thing to use a table when presenting tabular data

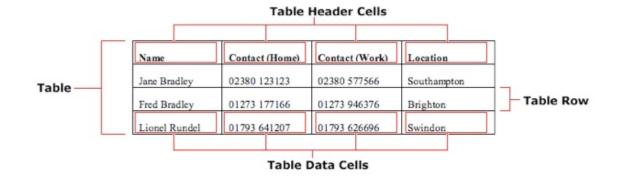
Name	Contact (Home)	Contact (Work)	Location
Jane Bradley	02380 123123	02380 577566	Southampton
Fred Bradley	01273 177166	01273 946376	Brighton
Lionel Rundel	01793 641207	01793 626696	Swindon

Tables are *not* for Layout

- Better accessibility when tables are used for layout the HTML ends up cluttered with extra tags which are there for layout only
- Because the browser must lay out table cells based on their contents and the contents of the other cells it forces the browser to wait until the whole page is downloaded (including embedded images) before page elements can be placed in their final on-screen position.
- When tables were used for grpahic layout table tags would be nested inside table tags simply to add a border - making the process even slower

```
Name
 Contact (Home)
 Contact (Work)
 Location
Jane Bradley
 02380 123123
 02380 577566
 Southampton
Fred Bradley
 01273 177166
 01273 946376
 Brighton
Lionel Rundel
 01793 641207
 01793 626696
 Swindon
```

Anatomy of a Simple Table



Tables *need* Styling

- The default look and feel of tables is so poor the you might be tempted to start adding styling in-line
- Avoid that temptation use CSS even if in the <head> area

```
        Name
        Contact (Home) Contact (Work)
        Location

        Jane Bradley
        02380 123123
        02380 577566
        Southampton

        Fred Bradley
        01273 177166
        01273 946376
        Brighton

        Lionel Rundel 01793 641207
        01793 626696
        Swindon
```

```
<style type="text/css">
table {
border-collapse: collapse;
border: 1px solid black;
th {
text-align: left;
background: gray;
color: white;
padding: 0.2em;
border: 1px solid black;
padding: 0.2em;
</style>
</head>
<body>
Name
  Contact (Home)
  Contact (Work)
  Location
```

Basic Styling

• Looks *like* a table of rows and columns

Name	Contact (Home)	Contact (Work)	Location
Jane Bradley	02380 123123	02380 577566	Southampton
Fred Bradley	01273 177166	01273 946376	Brighton
Lionel Rundel	01793 641207	01793 626696	Swindon

```
table.rates {
  /* declarations for rates tables */
}

table.schedule {
  /* declarations for schedule tables */
}

table.events {
  /* declarations for events tables */
}
```

Different Tables Different Styles

Again mark tables semantically - and then style in CSS.

Accessible Tables

- Use headers for header material
- Use <caption> for on-screen summary
- Use summary attribute of table tag for off-screen summary

```
<caption>
    Contact details
</caption>

        Name
        Contact (Home)
        Contact (Work)
        Contac
```

Advanced Styling

- Colors and background images can make tables very attractive
- It all belongs in the styling - not inline



Merging Table Cells

- colspan and rowspan indicate that a particular or element is more than one row or column
- colspan is more commonly used

Date	Event Details	Contact	
	Event Description	Approximate Cost	
12 July	Committee meeting, deciding on next year's trips	N/A	Bob Dobalina
19 July	7-day trip to Hurghada (package deal) – limited spaces	£260 pp (all inclusive), departing Luton	Bob Dobalina
5 August	Ocean & Sports Diver Theory Course	Call for details	Jeff Edgely
12 August	Murder Mystery Weekend, Cotswolds (no diving!)	£65 pp (accommodation included)	Jill Smith

```
Date
Event Details
Contact

Event Description
Event Description
```

scope="col"

Advanced Headers

scope="row"

	Departure Time	Platform	Buffet	Coach
Southampton	13:03	12	Yes	
Edinburgh	14:47	4	Yes	
Newcastle	15:55	7	No	_

 When making a two dimensional table you can put in row headers.

```
<caption>Train times and departures</caption>

< <!-- top-right corner -->
Departure Time
<
<th scope="col">Platform
<
<tr>
Buffet Coach

<13:03</td>

> 12

>Yes
```

Summary

- Tables have gotten a bad name because they were abused for years to hack layout
- But tables are very well-suited for displaying tabular data
- The key is to remember to use tables to mark tabular data and heading information semantically - not as a layout mechanism
- Think about accessibility when building a table